



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 740-013US3 (IU-0030)
Inventors: Byoung Kwon
Serial No.: 10/027,199
Filing Date: December 20, 2001
Examiner: Landsman, Robert S.
Group Art Unit: 1647
Customer No: 26259
Title: Receptor and Related Products and Methods

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By Jane Massey Licata
Typed Name: Jane Massey Licata, Reg. No. 32,257

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

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- () In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- (XX) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
- () Certification in Accordance with §1.97(e) is attached hereto; or
- (XX) Authorization to charge Deposit Account No. 50-1619 the fee of \$180.00 as set forth in §1.17(p) is provided.
- () In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(I) (1).

() Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

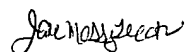
(XX) In accordance with §1.98(d), copies of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. 10/170,997, filed June 12, 2002, Serial No. 09/877,338, filed June 8, 2001, Serial No. 09/578,764, filed May 25, 2000, Serial No. 09/007,097, filed January 14, 1998, Serial No. 08/955,572, filed October 22, 1997, Serial No. 09/955,573, filed October 22, 1997, Serial No. 08/948,764, filed October 10, 1997, Serial No. 08/409,851, filed March 23, 1995, Serial No. 08/463,225, filed June 5, 1995, and Serial No. 08/122,796, filed September 16, 1993, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

() The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(xx) All listed references are in the English language.

Respectfully submitted,



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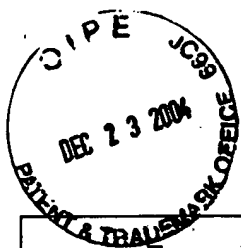
Form PTO-1449 Modified List of Patents and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce	Docket No. 740-013US3 (IU-0030)	Serial No. 10/027,199
	Applicant Byoung Kwon	
	Filing Date December 20, 2001	Group 1647

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	Alderson et al., "Molecular and Biological Characterization of Human 4-1BB and its Ligand", Eur. J. Immunol. 1994 24:2219-2227
	AB	Armitage R.J., "Identification of a source of biologically active CD40 ligand", Eur. J. Immunol. 1992 22:2071-2076
	AC	Biffen et al., "The CD45 tyrosine phosphatase regulates specific pools of antigen receptor-associated p59 ^{fun} and CD4-associated p56 ^{lck} tyrosine knases in human T-cells", EMBO J. 1994 13:1920-1994
	AD	Brown et al., "A Family of Small Inducible Proteins Indicators of Various Activation Process", J. Immun. 1989 679-687
	AE	Bressler et al., J. Immunol. 1991 147:2290-2294
	AF	Broxmeyer et al., "Enhancing and suppressing effects of combinant murine macrophage inflammatory proteins on colony formation <u>in vitro</u> bone marrow myeloid progenitor cells", Blood 1990 76:1110
	AG	Broxmeyer et al., "Myelopoietic enhancing effects of murine macrophage inflammatory proteins and human bone marrow granulocyte/macrophage progenitor cells", J. Exp. Med. 1989 170:1583
	AH	Broxmeyer et al., "The production of myeloid good cells and their regulation during health and disease", CRC Crit. Rev. Oncol./Hematol. 1988 8:173
	AI	Broxmeyer et al., "Macrophage inflammatory protein (MIP)-1 β subrogates the capacity of MIP-1 α to suppress myeloid progenitor cell growth", 1991 147:2586
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	AJ	Carthew et al., Cell 1990 63:561-577	
	AK	Chalupny et al., "T-cell activation molecule 4-1BB binds to extracellular matrix proteins", Proc. Natl. Acad. Sci. USA 1992 89:10360-10364	
	AL	Cohen et al., "Mounting a Targeted Strike on Unwanted Immune Responses", Science 1992 257:751	
	AM	Davatelis et al., "Macrophage inflammatory protein-1: a prostaglandin-independent endogenous pyrogen", Science 1989 243:1066	
	AN	Davatelis et al., "Cloning and Characterization of a cDNA for murine macrophage inflammatory protein (MIP), a cell monokine with inflammatory and chemokinetic properties", J. Experimental Medicine", 1988 167:1939	
	AO	DeBenedette et al., J. Immunol. 1997 158:551-559	
	AP	DeBenedette et al., "Role of 4-1BB Ligand in Constimulation of T Lymphocyte Growth and its Upregulation on M12 B Lymphomas by cAMP", J. Exp. Med. 1995 181:8	
	AQ	Defrance et al., J. Exp. Med. 1992 175:671-682	
	AR	Dunlop et al., "Demonstration of Stem Cell Inhibition and Myeloprotective Effects of SCI/rhMIP1 α in Vivo", Blood 1992 79:2221-2225	
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	AS	Fahey et al., "Cytokine induction in a model of wound healing:the appearance of MIP-1, MIP-2, hectin/TNF and IL-I", Cytokine 1990 2(2):92-99	
	AT	Gimmi et al., "Human T-cell clonal anergy is induced by antigen presentation in the absence of B7 costimulation", Proc. Natl. Acad. Sci. 1993 90:6586-6590	
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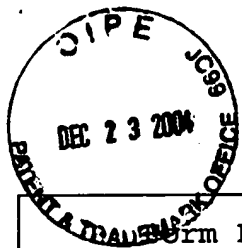


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	BB	Kwon et al., "Isolation and initial characterization of multiple species of T-lymphocyte subset cDNA clones", Proc. Natl. Acad. Sci. USA 1987 84:2896
	BC	Kwon et al., "cDNA Sequences of two inducible T-cell genes", Proc. Natl. Acad. Sci. USA 1989 86:1963-1967
	BD	Kim et al., "Novel T Cell Antigen 4-1BB Associates with the Protein Tyrosine Kinase p56 ^{lck} ", J. Immunology 1993 151:1255-1263
	BE	Loo et al., "Analysis of 4-1BBL and Laminin binding to murine 4-1BB, a member of the tumor necrosis factor receptor superfamily, and comparison with human 4-1BB", J. Biol. Chem. 1997 272(10):6448-6456
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	BG	Lewin et al., "When does Homology Mean Something Else?", Science 1987 237:1570
	BH	Maniatis et al., "Molecular Cloning: A Laboratory Manual (Cold Spring Harbor Laboratory, Cold Spring Harbor, NY 1982 310-352
	BI	Maraskovsky et al., Internat. Immunol. 1992 4:475-485
	BJ	Matthews L.S., "Expression Cloning of an Activin Receptor, a Predicted Transmembrane Serine Kinase", Cell 1991 65:973-982

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	BK	Miller et al., "A level polypeptide secreted by activated human T lymphocytes", J. Immunol. 1989 3:2907
	BL	Minano et al., "Macrophage inflammatory protein-1:unique action on the hypothalamus to evoke fever", Brain Bull. 1990 24:849-852
	BM	Mittler et al., J. Exp. Med. 1999 10:1535
	BN	Mueller et al., Ann. Rev. Immunol. 1989 7:445-480
	BO	Noelle et al., Immunol. Today 1990 11:361-368
	BP	Obaru et al., "A cDNA clone used study mRNA induction in human tonsillar lymphocytes by a tumor promoter", Biochem. 1986 99:885
	BQ	Oh et al., "Identification of cell surface receptors of murine macrophage inflammatory protein-1 α ", J. Immunol. 1991 147:2978-2983
	BR	Oppenheim et al., "Properties of the novel proinflammatory supergene "intercrine" cytokine family", Ann. Rev. Immunol. 1991 9:617
	BS	Petchen-Matthews, "Differential Endocytosis of CD4 in Lymphocytic and Nonlymphocytic Cells", J. Exp. Med. 1991 173:575-587

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	BT	Pollok et al., "4-1BB T-cell antigen binds to mature B cells and macrophages, and costimulates anti-u-primed splenic B cells", Eur. J. Immunol. 1994 24:367-374
	BU	Pollok et al., "Inducible T Cell Antigen 4-1BB", J. Immunol. 1993 150;771-781
	BV	Reeck et al., "Homology in Proteins and Nucleic Acids:A Terminology Muddle and A Way out of It", Cell 1987 50:667
	BW	Schall et al., "A Human T-Cell Specific Molecule is a Member of a New Gene Family", J. Immunol. 1988 141:1018-1025
	BX	Schwarz et al., "ILA, the Human 4-1BB Homologue, Is Inducible in Lymphoid and Other Cell Lineages", Blood 1995 85:1043-1052
	BY	Schwartz et al., "A receptor induced by lymphocyte activation (ILA):a new member of the human nerve-growth-factor/tumor-factor receptor family", Gene 1993 134:295-298
	BX	Sherry et al., "Resolution of the two components of macrophage inflammatory protein 1, and cloning and characterization of one of those components, macrophage inflammatory protein 1 β ", J. Experimental Medicine 1988 168:2251
	CA	Shuford et al., J. Exp. Med. 1997 186 7-55
	CB	Suggs et al., "Use of synthetic oligonucleotides as hybridization probes:Isolation of cloned cDNA sequences for human B ₂ -microglobulin", Proc. Natl. Acad. USA 78:6613-6617

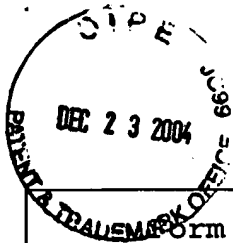
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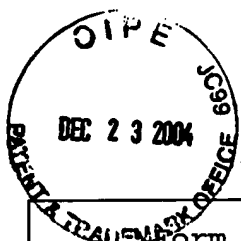
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	CC	Tekamp-Olson et al., "Cloning and characterization of mRNAs for murine macrophage inflammatory protein 2 and its human homologues", J. Exp. Med. 1990 172:911	
	CD	Townsend et al., "Tumor Rejection After Direct Costimulation of CD8 ⁺ T Cells by B7-Transfected Melanoma Cells", Science 1993 259:368-370	
	CE	Turka et al., Proc. Natl. Acad. Sci. USA 1992 89:11102-11105	
	CF	Van Lier et al., J. Immunol. 139:1589-1596	
	CG	Wolpe et al., "Macrophage inflammatory proteins 12:members of a novel superfamily of cytokines", FASEB 1989 3:2565	
	CH	Wolpe et al., "Macrophages secrete a novel heparin-binding protein with inflammatory and chemokine properties", J. Exp. Med. 1988 167:570	
	CI	Wolpe et al., "Identification and characterization of macrophage inflammatory protein 2", Proc. Natl. Acad. Sci. USA 1989 86:612	
	CJ	Zipfel et al., "Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors", J. Immunol. 1989 142:1582	
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	CD	Townsend et al., "Tumor Rejection After Direct Costimulation of CD8 ⁺ T Cells by B7-Transfected Melanoma Cells", Science 1993 259:368-370	
	CE	Turka et al., Proc. Natl. Acad. Sci. USA 1992 89:11102-11105	
	CF	Van Lier et al., J. Immunol. 139:1589-1596	
	CG	Wolpe et al., "Macrophage inflammatory proteins 12:members of a novel superfamily of cytokines", FASEB 1989 3:2565	
	CH	Wolpe et al., "Macrophages secrete a novel heparin-binding protein with inflammatory and chemokinetic properties", J. Exp. Med. 1988 167:570	
	CI	Wolpe et al., "Identification and characterization of macrophage inflammatory protein 2", Proc. Natl. Acad. Sci. USA 1989 86:612	
	CJ	Zipfel et al., "Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors", J. Immunol. 1989 142:1582	
	CK	Barclay et al., "Leucocyte Antigen FactsBook", Academic Press:London pp.70-71	
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	CL	Callard et al., "The Cytokine FactsBook", Academic Press: London 1994 39-40	
	CM	Lerner R.A., "Antibodies of Predetermined specificity in Biology and Medicine", Adv. Immunol. 1984 36:1-44	
	CN	Schwarz et al., "Nucleotide sequence ILA, a cDNA encoding a new member of the human nerve growth factor/tumor necrosis factor receptor family", 1993	
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1647

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	DA	5,928,893	7-27-99	Cang	435	69.1

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	DB	WO 95/07984		PCT		
	DC	WO 99/36093		PCT		

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